

WHAT IS CLAIMED IS:

1. A personal information terminal comprising:  
a data display means including an enlarging  
optical system;

5 an input means for receiving instructions from a  
user;

a radio communications means for connecting to a  
network; and

10 a control means for obtaining information from the  
network through the radio means and displaying the  
information on the data display means, based on  
instructions from the input means.

20 2. A personal information terminal according to  
Claim 1, wherein the control means limits the  
electrical power supply to the data display means to an  
amount which is less than an amount at a normal time  
while the control means is obtaining the information  
from the network through the radio means.

25 3. A personal information terminal according to  
Claim 1, wherein the data display means is an ocular-  
type data device comprising of a prism, a liquid  
crystal display device and an illumination device.

4. A personal information terminal according to  
Claim 3, wherein the control means cuts off the

electrical power supply to the illumination device while the control means is obtaining the information from the network through the radio means.

5           5. A personal information terminal according to Claim 3, wherein the control means turns the liquid crystal display device onto a low energy consumption mode while the control means is obtaining the information from the network through the radio means.

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6. A personal information terminal according to Claim 1, wherein the input means is a push button switch.

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7. A personal information terminal comprising:  
an ocular-type data display means arranged within a frame of a window and having an enlarging optical system;

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an input means for receiving instructions from a user;

a radio communications means for connecting to a network;

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a control means for obtaining information from the network through the radio means and making the information be displayed on the data display means, based on instructions from the input means; and

a notifying means for providing a notification to

a user at least as to whether the control means is in a state of obtaining information from the network through the radio means or not the notifying means being arranged outside the frame of the window.

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8. A personal information terminal according to Claim 7, wherein the notification means makes the notification visually.

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9. A personal information terminal according to Claim 8, wherein the notification means comprises a light emitting diode capable of emitting light of a plurality of colors.

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10. A personal information terminal according to Claim 7, wherein the notification means makes the notification auditorily.

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11. A personal information terminal according to Claim 10, wherein the notification means comprises a speaker.

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12. A personal information terminal according to Claim 7, wherein the notification means provides notification to the user as to whether the control means is in a state of obtaining information from the network through the radio means, or whether it is in a

state of displaying the obtained information on the data display means.

13. A personal information terminal according to  
5 Claim 12, wherein the notification means further provides notifications to the user as to whether the radio means is in a state of having ended the network connection normally, or whether the radio means is in a state of having ended the network connection  
10 abnormally.

14. A personal information terminal according to Claim 7, wherein the data display means is comprised of at least a liquid crystal display device and a prism  
15 having a substantially triangular column shape; and

wherein the notification means is located near the bottom surface of the substantially triangular column of the prism.

20 15. A personal information terminal according to Claim 1, wherein the input means is comprised of a moving means for moving a cursor position on a display screen of the data display means; and

wherein a starting means for starting a process  
25 corresponding to information on the display screen where the cursor is located.

16. A personal information terminal according to Claim 15, wherein the moving means is a means for converting manipulation instructions from the user into vector values on a two-dimensional plane surface, and  
5 the starting means is a push button switch.

17. A personal information terminal according to Claim 15, wherein the data display means is lodged within a frame of a display window provided to a  
10 housing of the personal information terminal, wherein the moving means is arranged on a side of the personal information terminal housing that the display window frame is located on, and wherein the starting means is  
15 arranged on a side opposite from the side that the display window frame is located on.

18. A personal information terminal according to Claim 17, wherein a curved groove is provided to the side of the personal information terminal housing that  
20 is opposite from the side that the display window frame is located on, and the starting means is arranged in this groove.

19. A personal information terminal according to Claim 15, wherein the data display means is arranged  
25 within the frame of the window provided to the housing of the personal information terminal, wherein the

starting means is arranged on the side of the personal  
information terminal housing that the display window  
frame is located on, and wherein the moving means is  
arranged on the side opposite from the side that the  
5 display window frame is located on.

20. A personal information terminal according to  
Claim 19, wherein a curved groove is provided to the  
side of the personal information terminal housing that  
10 is opposite from the side that the display window frame  
is located on, and the moving means is arranged in this  
groove.

21. A personal information terminal according to  
15 Claim 1, wherein the data display means is arranged  
within a frame of a display window provided to a  
housing of the personal information terminal, and the  
input means is provided on the personal information  
terminal housing, and a surface of the display window  
20 and a surface of the housing where the input means is  
arranged are parallel.

22. A personal information terminal according to  
Claim 21, wherein a predetermined distance exists  
25 between the housing surface where the display window is  
provided and the housing surface where the input means  
is provided.

23. A personal information terminal according to Claim 22, wherein the predetermined distance is at least the size of a thumb.

5           24. A personal information terminal according to Claim 1, wherein the data display means is arranged within a frame of a display window provided to a housing of the personal information terminal, and an area around the display window frame is black.

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          25. A personal information terminal according to Claim 7, wherein the window frame is provided to a housing of the personal information terminal, and the notification means is arranged either on a surface of the housing where the window frame is provided, or on a surface of the housing that is perpendicular to the housing surface where the window is provided.

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          26. An energy-consumption reduction method to be applied in a personal information terminal having a data display means including an enlarging optical system, an input means for receiving instructions from a user and a radio communications means for connecting to a network, the method comprising:

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25           an information obtaining step of obtaining information from the network through the radio means based on instructions from the input means;

a display step of displaying the information obtained in the information obtaining step on the data display means; and

5 a limiting step of limiting an amount of the electrical power supply to the data display means while the information is being obtained from the network through the radio means at the information obtaining step, the amount being less than an amount at a normal time.

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27. An energy-consumption reduction method according to Claim 26, wherein the data display means is comprised of a prism, a liquid crystal display device and an illumination device; and

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wherein the electrical power supply to the illumination means is cut off in the limiting step while the information is being obtained from the network through the radio means at the information obtaining step.

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28. An energy-consumption reduction method according to Claim 26, wherein the data display means is comprised of a prism, a liquid crystal display device and an illumination device; and

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wherein the liquid crystal display is turned onto a low energy consumption mode in the limiting step while the information is being obtained from the



network through the radio means at the information obtaining step.

29. A status notification method to be applied in  
5 a personal information terminal having an ocular-type data display means arranged within a frame of a window and having an enlarging optical system, an input means for receiving instructions from a user, a radio communications means for connecting to a network and a  
10 notifying means arranged outside the frame of the window, comprising of:

an information obtaining step obtaining information from the network through the radio means based on instructions from the input means;

15 a display step of displaying the information obtained in the obtaining step on the data display means; and

a notifying step of providing a notification to a user at least as to whether information is being  
20 obtained from the network through the radio means or not by means of a notification means.

30. A status notification method according to Claim 29, wherein in the notification step the  
25 notification means provides notification to the user as to whether the information is being obtained from the network through the radio means at the information

obtaining step, or whether the information is being displayed on the data display means at the display step.

5           31. A status notification method according to Claim 30, wherein, in the notification step, the notification means further provides notification to the user as to whether the radio means is in a state of having ended the network connection normally, or  
10 whether the radio means is in a state of having ended the network connection abnormally.

15           32. A computer readable recording medium storing as a program an energy-consumption reduction method to be applied in a personal information terminal having a data display means equipped with an enlarging optical system, an input means for receiving instructions from a user and a radio communications means for connecting to a network, the energy-consumption reduction method  
20 comprising:

an information obtaining step of obtaining information from the network through the radio means based on instructions from the input means;

25           a display step of displaying the information obtained in the information obtaining step on the data display means; and

a limiting step of limiting an amount of the

electrical power supply to the data display means while  
the information is being obtained from the network  
through the radio means at the information obtaining  
step, the amount being less than an amount at a normal  
5 time.

33. A recording medium according to Claim 32,  
wherein the data display means is comprised of a prism,  
a liquid crystal display device and an illumination  
10 device; and

wherein the electrical power supply to the  
illumination means is cut off in the limiting step  
while the information is being obtained from the  
network through the radio means at the information  
15 obtaining step.

34. An recording medium according to Claim 32,  
wherein the data display means is comprised of a prism,  
a liquid crystal display device and an illumination  
20 device; and

wherein the liquid crystal display device is  
turned onto a low energy consumption mode in the  
limiting step while the information is being obtained  
from the network through the radio means at the  
25 information obtaining step.

35. A computer readable recording medium storing

as a program a status notification method to be applied  
in a personal information terminal having an ocular-  
type data display means arranged within a frame of a  
window and having an enlarging optical system, an input  
5 means for receiving instructions from a user, a radio  
communications means for connecting to a network and a  
notifying means arranged outside the frame of the  
window, the status notification method comprising:

an information obtaining step of obtaining  
10 information from the network through the radio means  
based on instructions from the input means;

a display step of displaying the information  
obtained in the information obtaining step on the data  
display means; and

15 a notifying step of providing a notification to a  
user at least as to whether the information is being  
obtained from the network through the radio means or  
not by means of a notification means.

20 36. A recording medium according to Claim 35,  
wherein in the notification step the notification means  
provides notification to the user as to whether the  
information is being obtained from the network through  
the radio means at the information obtaining step, or  
25 whether the information is being displayed on the data  
display means at the display step.

37. A recording medium according to Claim 36,  
wherein in the notification step the notification means  
further provides notification to the user as to whether  
the radio means is in a state of having ended the  
network connection normally, or whether the radio means  
is in a state of having ended the network connection  
abnormally.